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(71) Applicant: **MITSUI PETROCHEM IND LTD**

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HARA YASUHIRO  
TABATA HOMARE**

(74) Representative:

### (54) PRODUCTION OF TAXANE-TYPE DITERPENE

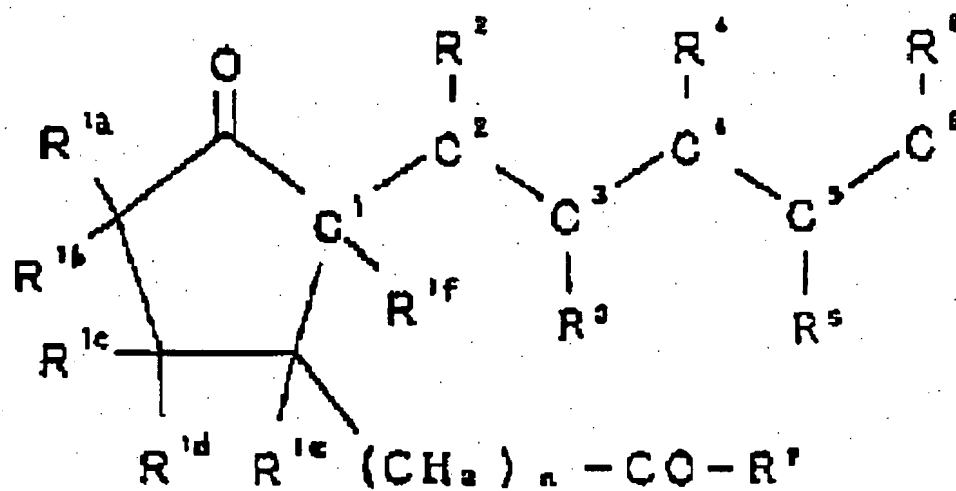
(57) Abstract:

**PURPOSE:** To produce a taxane-type diterpene useful e.g. as a treating agent for ovarian cancer, mammary cancer, pulmonary cancer, etc., by culturing cells or tissues of a plant capable of producing a taxane-type diterpene in the presence of a specific jasmonic acid and recovering the compound from the cultured product.


**CONSTITUTION:** This taxane-type diterpene (e.g. taxol) is produced in high productivity by culturing the cells or tissues of a plant capable of producing a taxane-type diterpene (e.g. *Taxus brevifolia*) in the presence of a jasmonic acid compound of, formula [R1a, R1b, R1c, R1d and R1f are each H, OH, a 1-6C alkyl or a 1-6C alkoxy; R2 to R6 are each H or a 1-6C alkyl; the side chain bonded to C1 may contain one or more double bonds; R7 is OH, OM (M is an alkali metal, an alkaline earth metal or NH<sub>4</sub>), NR8aR8b (R8a and R8b are each H, a 1-6C acyl, a 1-6C alkyl or an amino acid residue), OR9 (R9 is a 1-6C alkyl or a carbohydrate residue) or a 1-6C alkyl; (n) is 1-7] (e.g. methyl jasmonate) and recovering the

Compound from the cultivation  
product.

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HARA YASUHIRO;  
TABATA HOMARE;**Assignee: **MITSUI PETROCHEM IND LTD**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **Feb. 6, 1996 / March 7, 1995**Application Number: **JP1995000047580**IPC Code: **C12P 7/40; C12P 17/02; C12P 7/40;**Priority Number: **May 18, 1994 JP1994000104213**

Abstract:



**PURPOSE:** To produce a taxane-type diterpene useful e.g. as a treating agent for ovarian cancer, mammary cancer, pulmonary cancer, etc., by culturing cells or tissues of a plant capable of producing a taxane-type diterpene in the presence of a specific jasmonic acid and recovering the compound from the cultured product.

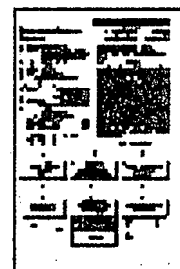
**CONSTITUTION:** This taxane-type diterpene (e.g. taxol) is produced in high productivity by culturing the cells or tissues of a plant capable of producing a taxane-type diterpene (e.g. *Taxus brevifolia*) in the presence of a jasmonic acid compound of, formula [R1a, R1b, R1c, R1d and R1f are each H, OH, a 1-6C alkyl or a 1-6C alkoxy; R2 to R6 are each H or a 1-6C alkyl; the side chain bonded to C1 may contain one or more double bonds; R7 is OH, OM (M is an alkali metal, an alkaline earth metal or NH<sub>4</sub>), NR8aR8b (R8a and R8b are each H, a 1-6C acyl, a 1-6C alkyl or an amino acid residue), OR9 (R9 is a 1-6C alkyl or a carbohydrate residue) or a 1-6C alkyl; (n) is 1-7] (e.g. methyl jasmonate) and recovering the compound from the cultivation product.

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Designated Country: **CA CN EP KR US DE FR GB IT NL**



Family:

PDF	Publication	Pub. Date	Filed	Title
	<a href="#">WO9514103A1</a>	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<a href="#">US20020012976A1</a>	Jan. 31, 2002	April 28, 1999	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE

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 <a href="#">US6403343</a>	June 11, 2002	April 28, 1999	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">US5968789</a>	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">US5637484</a>	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
<a href="#">KR0172606B1</a>	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
<a href="#">KR0169081B1</a>	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
<a href="#">KR0169080B1</a>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
<a href="#">KR0169079B1</a>	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
<a href="#">JP8116981A2</a>	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<a href="#">JP8056681A2</a>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<a href="#">JP8056680A2</a>	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<a href="#">JP8033490A2</a>	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
<a href="#">JP8009983A2</a>	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
<a href="#">JP7308197A2</a>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
<a href="#">JP7308196A2</a>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
<a href="#">JP7135967A2</a>	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
 <a href="#">EP1063300A3</a>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">EP1063300A2</a>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">EP1063299A3</a>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">EP1063299A2</a>	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">EP1054065B1</a>	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
 <a href="#">EP1054065A1</a>	Nov. 22, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-

				type diterpene at a high rate
	<a href="#">EP0683232B1</a>	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<a href="#">EP0683232A4</a>	Nov. 29, 1995	Nov. 9, 1994	
	<a href="#">EP0683232A1</a>	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<a href="#">DE69431135C0</a>	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<a href="#">DE69426692T2</a>	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<a href="#">DE69426692C0</a>	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<a href="#">CN1251391A</a>	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTIVE CULTURE CELLS OF TAXANES DITERPENE
	<a href="#">CN1248630A</a>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<a href="#">CN1248629A</a>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<a href="#">CN1119028A</a>	March 20, 1996	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<a href="#">CN1083012B</a>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE
	<a href="#">CN1083011B</a>	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTION CULTURE CELLS OF TAXANES DITERPENE
	<a href="#">CN1083010B</a>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<a href="#">CN1058054B</a>	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<a href="#">CA2153986AA</a>	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE
38 family members shown above				